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Amendments to the Claims

Please amend Claims 1 and 7-9 as indicated in the Complete Listing of Claims below:

Complete Listing of Claims

Claim 1 (currently amended): A micromechanical dynamometer, comprising:

- a) a substrate;
- b) a high-compliance deflection element comprising at least one anchor site and at least one input site;
- c) one anchor for each anchor site, extending between the substrate and said anchor site;
- d) a force coupler transferring force from an external source to <u>the</u> at least one input site; and,
- e) a displacement gauge at least one distance scale for optically measuring a deflection of the high-compliance deflection element in response to the force provided from the external source, with the distance scale being functionally attached to the high-compliance deflection element.
- Claim 2 (original): The dynamometer of claim 1, wherein the high-compliance deflection element comprises crystalline silicon, polycrystalline silicon, amorphous silicon, silicon oxide, silicon nitride, amorphous diamond, or a solgel glass.
- Claim 3 (original): The dynamometer of claim 1, wherein the high-compliance deflection element comprises an annulus of material, said annulus having the shape of a polygon, and essentially constant thickness normal to said polygon.
- Claim 4 (original): The dynamometer of claim 3, wherein said high-compliance deflection element has a line of mirror symmetry.
- Claim 5 (original): The dynamometer of claim 3, wherein said polygon is a regular polygon.



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Claim 6 (original): The dynamometer of claim 1, wherein the high-compliance deflection element comprises a circular annulus having a rectangular cross-section of essentially constant dimensions throughout.

Claim 7 (currently amended): The dynamometer of claim 1, wherein saiddisplacement gauge comprises an each distance scale operates in combination
with an indicator which is mechanically coupled to displacements a
displacement of the high-compliance deflection element.

Claim 8 (currently amended): The dynamometer of claim 7, wherein saiddisplacement gauge comprises multiple indicators mechanically coupled todisplacements of the high-compliance deflection element, each such indicator being is coupled to a different point on the deflection element.

Claim 9 (currently amended): The dynamometer of claim 7, wherein said displacement gauge each distance scale is further comprises an optically readable distance scale positioned so that displacement of the indicator can thereby be quantified optically.

Claim 10 (original): The dynamometer of claim 1, further comprising a calibration force input.

Claim 11 (original): The dynamometer of claim 10, wherein the calibration force input is integral with the force coupler.

Claim 12 (original): The dynamometer of claim 1, further comprising a deflection element restraint system.

Claim 13 (original): The dynamometer of claim 12, wherein said restraint system comprises motion guides.

Claim 14 (original): The dynamometer of claim 13, wherein said restraint system comprises ring constraints.

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